

KOPP, Isidor Filippovich, prof. [deceased]; KROL', Ayzik Grigor'yevich,  
prof.; KHVATOVA, A.V., red.; BUKOVSKAYA, N.A., tekhn. red.

[Fundamentals of the general treatment of eye diseases] Os-  
novy obshchei terapii zabolevani glaz. Moskva, Medgiz,  
1963. 279 p. (MIRA 16:7)

(EYE--DISEASES)

KHVATOVA, A.V.

Results of cataract extractions in students of schools for  
blind and weak-sighted children. Uch.zap. GNII glaz. bol.  
no.8:128-135'63. (MIRA 16:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut glaz-  
nykh bolezney imeni Gel'mgol'tsa.  
(CATARACT) (EYE--SURGERY)

KRASNOV, M.M.; PETROPAVLOVSKAYA, G.A.; KHVATOVA, A.V.

Experimental study of the reaction of a rabbit's eye to the implantation in the anterior chamber of an artificial crystalline lens made of glass or plastic. Uch.zap. GNII glaz. (MIRA 16:9)  
bol. no.8:163-170:63.

1. Gosudarstvennyy nauchno-issledovatel'skiy institut glaznykh bolezney imeni Gel'mgol'tsa.  
(CRYSTALLINE LENS) (EYE—SURGERY)

KHVATOVA, A.V., kand.med.nauk

New tasks in the prophylaxis of eye injuries in schoolchildren.  
Oft. zhur. 18 no.3:137-140 '63. (MIRA 17:4)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta glaznykh  
bolezney imeni Gel'mgol'tsa, Moskva.

GOL'FEL'D, Natal'ya Grigor'yevna; KHVATOVA, A.V., red.

[Organization of nurse's work in the ophthalmologic ward  
and the ophthalmologic room of a polyclinic] Organizatsia  
raboty meditsinskoi sestry v glaznom otdelenii i glaznom ka-  
binete polikliniki. Moskva, Meditsina, 1964. 217 p.  
(MIRA 17:4)

RABINOVICH, Mikhail Germanovich, doktor med. nauk; KHVATOVA,  
A.V., red.

[Cataract] Katarakta. Moskva, Meditsina, 1965. 170 p.  
(MIRA 18:5)

KHVATOVA, L.

Sterilizing the ash pests. Zashch. rast. ot vred. i bol. 10 no.12:  
51-52 '65. (MIRA 19:1)

1. Zaveduyushchaya laboratoriyey zashchity rasteniy, Kastromskaya  
opytnaya stantsiya.

KANTOR, Lev Yakovlevich; KHVATOVA, L.M., otv. red.; NOVIKOV, S.A.,  
red.; SLUTSKIN, A.A., tekhn. red.

[Multiple program broadcasting and wire broadcasting net-  
works]Mnogoprogrammnoe veshchanie po radiotranslyatsionnoi  
seti. Moskva, Sviaz'izdat, 1962. 57 p. (MIRA 15:10)  
(Wire broadcasting)



VASILEV, N.S.; KHVATOVA, M.N.

Some early ripening hybrids of corn. Trudy TASS no. 2:107-112  
64. (MIRA 17:9)

YUDIN, B.F.; KHVATOVA, M.N.

Study of polyploidy series in corn. Izv. SO AN SSSR no.4 Ser.  
biol.-med.nauk no.1:87-93 '65. (MIRA 18:8)

1. Biologicheskiy institut Sibirskogo otdeleniya AN SSSR, Novosibirsk.

BOGOMOL'NIY, Avram Yevseyevich; NIKITIN, P.S., otvetstvennyy redaktor;  
KHAVATOVA, T.A., redaktor; DLUGOKANSKAYA, Ye.A., tekhnicheskiy  
redaktor; FRUMKIN, P.S., tekhnicheskiy redaktor

[Auxiliary marine machinery] Sudovye vopomogatel'nye mekhanizmy.  
Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1957. 275 p.  
(MLBA 10:8)

(Ships--Equipment and supplies)

KHVA10VA, V.P.

Khvatova, V.P. - "The role of melanophors in the process of pigmentation of epidermal origins," Trudy Krymsk. med. in-ta im. Stalina, Vol. XII, 1948, p. 79-82

SO: U-3950, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

USSR/Human and Animal Physiology - (Normal and Pathological).  
Nervous System. General Problems.

T

Abs Jour : Ref Zhur Biol., No 4, 1959, 17903

Author : Khvatova, V.P., Volynskiy, A.M.

Inst : Crimea Medical Institute

Title : Regeneration of Traumatized Nerve under the Conditions  
of Stimulation and Inhibition of Central Nervous System.

Orig Pub : Tr. Krymsk. med. in-ta, 1957, 17, 99-106

Abstract : In rabbits, compression of the sciatic nerve for the  
duration of 4 minutes by a looped string with a weight  
of 40 g suspended from it induced degeneration of the  
nerve. Subcutaneous introduction of a therapeutic dose  
of caffeine speeded up the restoration of functions  
(respiration and flexor reflex to electric stimulus were  
registered) and morphologic regeneration of the nerve.

Card 1/2

*Khvatova V. P.*

USSR/Human and Animal Physiology - (Normal and Pathological).  
Physiology of Age Groups.

T

Abs Jour : Ref Zhur Biol., No 4, 1959, 17047

Author : Khvatova, V.P.

Inst : Crimea Medical Institute

Title : On the Study of the Oral-Cardial Reflex

Orig Pub : Tr. Krymsk. med. in-ta, 1957, 18, 74-81

Abstract : In 50 newborn animals (kittens and puppies) related changes of the activity of the heart in relation to the complex suckling reflex were noted. The exchange of arrhythmia to the rhythmic work of the heart in suckling was discovered (especially in puppies). Reflex reactions of the heart (in suckling an empty nipple) were expressed in an increase of frequency of the rhythm of contractions, increase of amplitude of P and T waves, and decrease of

Card 1/2

- 2 -

KHVATCVA, YE. A.

Agriculture - Study and Teaching

Work with students in an agrobiological station. Sov. pedagog. 16, no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 195<sup>2</sup><sub>8</sub>, Uncl.

KHVA TOVA, Ye. A.

Bud grafting apple wildings previously grafted unsuccessfully.  
Est. v shkole no. 1: 76-77 Ja-F '56. (MLRA 9:5)

1. Gor'kovskiy pedagogicheskiy institut.  
(Grafting) (Apple)



KHVATOVA, Ye.A.

Organizing practical work for students at the agrobiological station  
of the pedagogical institute. Politekh.obuch. no.4:51-58 Ap '57.  
(MLRA 10:7)

(Agriculture--Study and teaching)

*KHVATOVA, Ye.A.*  
KHOVATOVA, Ye.A.

Selection of teaching material and its use for work with  
students at an agrobiological experimental station. Politekh.  
obuch. no.2:77-83 F '58. (MIRA 11:1)

1.Gor'kovskiy pedagogicheskiy institut.  
(Agriculture--Study and teaching)

KHVATOVA, Ye.A.

Keeping records as means of increasing the efficiency of field work.  
Politekh.obuch. no.10:62-67 O '58. (MIRA 11:11)

1. Iz opyta raboty Gor'kovskogo pedagogicheskogo instituta.  
(Agriculture--Study and teaching) (Field work (Educational method))

KHVATOVA, Ye.M.

Remote oxygen requirement of the brain after hypothermia. Biofizika  
6 no.3:351-356 '61. (MIRA 14:6)

1. Gor'kovskiy meditsinskiy institut imeni S.M.Kirova.  
(BRAIN) (HYPOTHERMIA) (OXYGEN IN THE BODY)

POLIKARPOV, S.N.; KHVATOVA, Ye.A.

Diagnostic significance of aldolase and transaminase in the complex of liver function tests in acute cholecystitis. (MIRA 14:10)  
Khirurgiia no.10:117-123 '61.

1. Iz biokhimicheskoy laboratorii Nauchno-issledovatel'skogo instituta skoroy pomoshchi imeni Yu.Yu. Dzhanelidze (nauchnyy rukovoditel' - zasluzhennyy deyatel' nauki prof. M.S. Lisitsyn).  
(GALL BLADDER--DISEASES) (LIVER) (TRANSAMINASE)  
(ALDOLASE)

ROMANOVSKAYA, V.K.; KHVATOVA, Ye.A., kand.biologicheskikh nauk

Transaminase activity in myocardial infarcts. Vrach.delo no.12:  
12-15 D '62. (MIRA 15:12)

1. Leningradskiy nauchno-issledovatel'skiy institut skoroy  
pomoshchi imeni prof. I.I.Dzhanelidze (rukovoditel' nauchnoy  
raboty terapevticheskogo otdeleniya, prof. Ant.F.Tur, zav.  
biokhimicheskoy laboratoriyey - kand.biologicheskikh nauk Ye.A.  
Khvatova).

(TRANSAMINASES) (HEART—INFARCTION)

KHVATOVA, Ye.A. (Leningrad, F-31, ploshchad' Mira, 13, kv.4);  
MARTYNKIN, G.A.

Study of the blood coagulation system in some surgical diseases.  
Vest. khir. 92 no.6:46-50 Je '64. (MIRA 18:5)

1. Iz Nauchno-issledovatel'skogo instituta skoroy pomoshchi imeni  
prof. Yu.Yu. Dzhanelidze (dir. - prof. G.D. Shushkov), Leningrad.

ACC NR: AP7004074

SOURCE CODE: UR/0301/67/013/001/0066/0069

AUTHOR: Khvatova, Ye. M.; Shvets, N. A.

ORG: Gorkov Medical Institute im. S. M. Kirov (Gor'kovskiy meditsinskiy institut)

TITLE: Change in the oxidation-phosphorylation relationship in brain mitochondria during hypothermia

SOURCE: Voprosy meditsinskoy khimii, v. 13, no. 1, 1967, 66-69

TOPIC TAGS: hypothermia, biologic metabolism, tissue chemistry, animal physiology, central nervous system, phosphorylation

ABSTRACT:

These experiments were conducted on etherized male rabbits cooled in a container with snow to a minimum rectal temperature of 19—20C. When maximum hypothermia had been attained they were killed. Approximately one minute later the brain was removed and homogenized in a mixture containing ice, 0.25 M sucrose, and 0.0001 M EDTA. Some results of the experiment are shown in the following tables and figures. It was found that  $Ca^{++}$  ions have a stronger dissociating effect, while cystein intensifies the oxidating capacity of brain mitochondria in cooled animals to a greater degree. Preincubation in glucose and hexokinase in the absence of oxidative substrates quickly depletes the phosphorylating capacity of brain mitochondria in cooled

Card 1/3 animals. UDC: 612.822.2.014.1:[612.262:612.398.145.1]-06:612.592



ACC NR: AP7004074

Table 1. Dissociating effect of  $\text{Ca}^{++}$  ions on the mitochondria of normal and cooled rabbits ( $\Delta\text{O}$  and  $\Delta\text{P}$  in microgram atoms)

Incubation conditions	Normal			Hypothermia		
	$\Delta\text{O}$	$\Delta\text{P}$	P/O	$\Delta\text{O}$	$\Delta\text{P}$	P/O
Without $\text{Ca}^{++}$	$3,71 \pm 0,37$	$7,76 \pm 0,82$	$2,05 \pm 0,05$	$3,97 \pm 0,47$	$7,78 \pm 1,10$	$1,96 \pm 0,2$
Added $\text{Ca}^{++}$ $1 \cdot 10^{-4} \text{ M}$	$3,90 \pm 0,50$ $P > 0,1$	$6,86 \pm 1,11$ $P > 0,1$	$1,75 \pm 0,12$ $P < 0,001$	$4,17 \pm 0,39$ $P = 0,1$	$6,29 \pm 0,84$ $P < 0,002$	$1,51 \pm 0,19$ $P < 0,002$

Table 2. Effect of cystein on the respiratory and phosphorylating activity of brain mitochondria in normal and cooled rabbits ( $\Delta\text{O}$  and  $\Delta\text{P}$  in microgram atoms)

Incubation conditions	Normal			Hypothermia		
	$\Delta\text{O}$	$\Delta\text{P}$	P/O	$\Delta\text{O}$	$\Delta\text{P}$	P/O
Without cystein	$3,71 \pm 0,37$	$7,76 \pm 0,82$	$2,05 \pm 0,05$	$3,97 \pm 0,47$	$7,78 \pm 1,10$	$1,96 \pm 0,2$
With cystein $10^{-5} \text{ M}$	$4,32 \pm 0,4$ $P < 0,02$	$7,77 \pm 0,87$ $P > 0,1$	$1,78 \pm 0,05$ $P < 0,02$	$4,69 \pm 0,74$ $P < 0,01$	$7,79 \pm 1,11$ $P > 0,1$	$1,66 \pm 0,33$ $P < 0,02$

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ACC NR: AP7004074

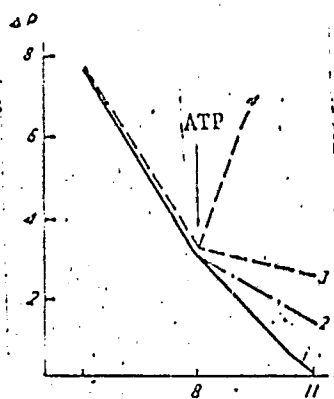


Fig. 1. Effect of preincubation and the subsequent addition of ATP on the phosphorylating capacity of brain mitochondria in normal and cooled rabbits

1 - Cooled rabbits (7 of 10 experiments); 2 - cooled rabbits (3 of 10 experiments); 3 - normal rabbits; 4 - normal rabbits after administration of ATP.

SUB CODE: 06/ SUBM DATE: 11Jul65/ ORIG REF: 003/ OTH REF: 006  
 ATD PRESS: 5113

Card 3/3

DIKIY, Aleksandr Danilovich, kand.tekhn.nauk; SOLDATOV, Ivan Andreyevich.  
Prinimal uchastiye KHVATOVKER, I.Ye., kand.tekhn.nauk. STERLIGOV,  
V.L., inzh.-mayor, red.; SRIBNIS, N.V., tekhn.red.

[Radio transmitting devices] Peredatchiki radiotekhnicheskikh  
sredstv. Moskva, Voen.izd-vo M-va obor.SSSR, 1960. 367 p.  
(MIRA 13:7)

(Radio, Shortwave--Transmitters and transmission)

KHVATOVSKAYA, V.M.

Quantitative determination of caffeine-sodium benzoate in ampule solutions (10 and 20 ) through ion-exchange chromatography. Apt. delo 7 no.1:45-48 Ja-P '58. (MIRA 11:3)

1. Iz kafedryfarmatsevticheskoy khimii (zav. - prof. P.L.Senov)  
Moskovskogo farmatsevticheskogo instituta zdravookhraneniya RSFSR  
(CAFFEINE) (SODIUM BENZOATE)  
(CHROMATOGRAPHIC ANALYSIS)

KHVATOVSKAYA, V.M.

Quantitative determination of morphine hydrochloride in an ampule  
solution by ion-exchange chromatographic analysis. Apt.delo  
7 no.2:65-66 Mr-Ap '58. (MIRA 11:4)

1. Iz kafedry farmatsevticheskoy khimii (zav.-prof. P.L. Senov)  
Moskovskogo farmatsevticheskogo instituta Ministerstva zdavo-  
okhraneniya RSFSR.  
(MORPHINE) (CHROMATOGRAPHIC ANALYSIS)

ACC NR: AP7000669

(N)

SOURCE CODE: UR/0375/66/000/012/0039/0046

AUTHORS: Timofeyev, N. A.; Khvatskiy, N. V.

ORG: none

TITLE: The northwestern part of the Pacific Ocean

SOURCE: Morskoy sbornik, no. 12, 1966, 39-46

TOPIC TAGS: ocean current, oceanography, climatology, climatic influence, atmospheric pressure, wind direction, wind velocity, atmospheric precipitation, meteorology, hydrography

ABSTRACT: A review of various studies of the northwestern Pacific Ocean bounded by the equator, the Philippines, Japan, 45° N Lat and 180° Long is presented. A propagandized synoptic history of the western world's interest in the area is analyzed. The climate varies from equatorial to temperate, and the seasonal weather pattern is controlled by the Aleutian low, the Siberian high, and the Pacific subtropical high. The wind systems include: the equatorial doldrums; the trade winds east of 150° E between 5° and 25° N Lat; the monsoons in the same latitude west of 150° E; the zone of subtropical calms between 20° and 30° N; and the prevailing westerlies north of this. There are also local island breezes and an average of 20—22 typhoons a year. The complex relief of the ocean floor is dominated by island chains and deep trenches

Cord 1/2

ACC NR: AP7000669

which together with massive underwater mountain ranges divide the area into basins. The islands are volcanic or coral, and the composition of the floor varies widely and, in places, contains metal deposits such as iron-manganese nodules and cobalt-nickel nodules. There are three sharply defined constant currents: the northern trade, the equatorial, and the southern trade, which represent separate parts of the entire Pacific circulation. Around the islands there are tidal currents. The hydrologic characteristics divide the water into six separate types of masses characterized by four structures: subarctic, subtropic, tropic, and equatorial. The temperature, salinity, density, transparency, etc of each are different. Orig. art. has: 1 table and 5 figures.

SUB CODE: 04, 08/ SUBM DATE: none/ ORIG REF: 003

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PROCESSES AND PROPERTIES INDEX																																																																																																																																																																								
<p>Production of fiberboard from waste tanbark oak.            I. A. Skul'skaya and S. P. Khyatt, <i>Bumashnaya Prom.</i>            13, No. 10, 38-44(1030); T. Giller, C. A. 29, 4172.            Waste tanbark oak cooked with 10% CaO at 100-100° for            6 hrs. in mist. with waste paper up to 30% or unbleached            sulfate pulp up to 20% gave fiberboard comparable in the            mech. properties with 100% waste-tanbark-oak product            obtained by pulping with 30% recovered lye at 6 atm. for            12 hrs. Chav. Blanc</p>																																																																																																																																																																								
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KHVATT, S.P.

Development of pulp and paper industry in woodless regions.  
Bum.prom. 29 no.5:25 My '54. (MLRA 7:7)

1. Nachal'nik Tekhniko-ekonomicheskogo otdela Ukgiprobuma.  
(Paper industry) (Wood-pulp industry)

*Khvat, S.P.*

LYSKOV, M.I., inzh.; KHVATT, S.P., inzh.-ekonomist.

Paper industry of the Ukraine. Bun.prom. 32 no.11:15-20 N '57.  
(MIRA 11:1)

(Ukraine--Paper industry--History)

KHYATT, S.P., insh.-referent

"Isogrand" method (from "Prsegled Papiernicosy," no.5/160 1957).  
Bum. prom. 33 no.5:26 My '58. (MIRA 11:6)  
(Paper)

KHVATT, S.P., referent

Utilization of rice straw in the paper industry of the Hungarian  
People's Republic (from "Przegląd Papierniczy," no.11, 1956).  
Bum. prom. 33 no.8:22-24 Ag '58. (MIRA 11:10)  
(Hungary--Paper industry)

KHVATTSEV, M. YE.

Medicine

Restoration of speech in persons with jaw and face wounds. (Leningrad) Medgiz, 1946.

Monthly List of Russian Accessions. Library of Congress. September 1952. Unclassified.

KHVATTSEV, Mikhail Yefimovich, prof.; NOVIKOV, Ya.A., red.; TSYFPO, R.V.,  
tekh. red.

[Logopedic work with preschool age children; manual for normal school students, methodologists and kindergarten teachers] Logopedicheskaia rabota s det'mi doskol'nogo vozrasta; posobie dlia studentov pedagogicheskikh institutov, metodistov i vospitatelei detskikh sadov. Izd.2., ispr. i dop. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1961. 203 p. (MIRA 14:9)  
(CHILDREN—LANGUAGE) (SPEECH, DISORDERS OF)

KHVATTSEV, Mikhail Yefremovich, prof.; ZAGIK, L.V., red.;  
DOBROKVASHINA, A.I., tekhn. red.

[How to prevent and eliminate voice and speech defects in  
children]Kak predupredit' i ustranit' nedostatki golosa i  
rechi u detei. Moskva, Izd-vo Akad. pedagog. nauk, 1962.  
86 p. (MIRA 16:1)

(CHILDREN--LANGUAGE) (SPEECH THERAPY)

KHVATYNETS, L.P., inzh.

Advice for a tractor operator. Zashch. rast. ot vred. 1 bol.  
9 no.7:30-31 '64. (MIRA 18:2)



KHVEDAROVICH, Mikola

A restless poet. Rab. i sial. 38 no.4:22 Ap '62. (MIRA 15:4)  
(Bandaryna, Zinaida, 1909-1959)

KHVEDCHEN', L. K., inzh.

Elastic screw conveyor for feeding dustlike materials. Rats. i  
izobr. predl. v stroi. no. 4:46-48 '57. (MIRA 11:8)  
(Conveying machinery)

KHVEDCHEN' L. K., inzh.

Vacuum apparatus for testing tightness of welding joints. [Suggested  
by L.K.Khvedchen'.] Rats. i izobr. predl. v stroi. no. 4:61-64  
'57. (MIRA 11:8)

(Vacuum apparatus)

AFANAS'YEV, A.S.; KHVEDCHENYA, G.M.

Correlation between the potential of scale-covered steel and  
the loss of weight on etching in sulfuric acid. Ukr. khim.  
zhur. 30 no.4:405-410 '64. (MIRA 17:6)

1. Dnepropetrovskiy metallurgicheskii institut.

AFANAS'YEV, A.S.; KHVEDCHENYA, G.M.

Interrelation between the potential of scale-covered steel  
and the decrease of weight during acid pickling. Part 3:  
Effect of the macrostructure of scale. Ukr. khim. zhur. 31  
no.9:966-973 '65. (MIRA 18:11)

1. Dnepropetrovskiy metallurgicheskiy institut.

AFANAS'YEV, A.S.; KHVEDCHENYA, G.M.

Relation between the potential of scale-coated steel and the decrease in weight of the sample in acid etching. Part 2: Behavior of steel during cathodic and anodic polarization. Ukr. khim. zhur. 31 no.8: 856-863 '65. (MIRA 18:9)

1. Dnepropetrovskiy metallurgicheskiy institut.

PANFILOV, N.; SMIRNOVA, Ye., starshiy prepodavatel'; KHVEDCHENYA, L.

"Principles of the economic analysis of the work of enterprises"  
by M.Rubinov. Reviewed by N.Panfilov, E.Smirnova, L.Khvedchenia.  
Fin.SSSR 37 no.4:93-94 Ap '63. (MIRA 16:4)

1. Zaveduyushchiy Leningradskim promyshlennym oblastnym  
finansovym otdelom (for Panfilov). 2. Leningradskiy finansovo-  
ekonomicheskii institut (for Smirnova). 3. Zamestitel' nachal'-  
nika finansovogo upravleniya Leningradskogo soveta narodnogo  
khozyaystva (for Khvedchenya).  
(Industrial management) (Auditing and inspection)  
(Rubinov, M.)

КНИЖ. ДОУМЛЕНА, А. И.  
KNOPOV, A.L.; KOGAN, B.L.; SINITSYN, M.P.; SOMINSKIY, V.S.; KHVEDCHENYA, L.I.

"Planning production in woodpulp enterprises" by A.V.Chirkov.  
Reviewed by A.L.Knopov and others. Bum.prom.32 no.8:31-32  
Ag '57. (MIRA 10:12)  
(Woodpulp industry) (Chirkov, A.V.)



KHVEDCHENYA, L.K, inzh.

Testing the thickness of welded seams of metal construction elements  
by means of vacuum techniques. Suggested by L.K.Khvedchenia. Rats.  
i izobr. predl. v stroi. no.15:68-73 '60. (MIRA 13:9)

1. Po materialam Tekhnicheskogo upravleniya Ministerstva stroitel'stva  
USSR.

(Vacuum apparatus)

(Electric welding)

KHVEDCHENYA, Leonid Konstantinovich; SVISTKOV, Vasil'yevich;  
GORCHAKOV, A.V., otv. red.; RAGAZINA, M.F., nauchnyy red.

[Testing the tightness of weld joints by vacuuming] Ispytanie  
plotnosti svarnykh shvov metodom vakuumirovaniia. Izd.2.,  
perer. Moskva, T'Sentr. biuro tekhn. informatsii, 1959. 19 p.  
(MIRA 15:2)

(Welding—Testing)

(Vacuum technology)

AUTHORS: Lazarev, B.G., Ovcharenko, O.H. and SOV/126-7-1-25/28  
Khvedchuk, I.R.

TITLE: On the Problem of Determining the Activation Energy of  
Vacancy-Formation Using Dilatometric Measurements  
(K voprosu ob opredelenii energii aktivatsii obrazovaniya  
vakansiy iz dilatometricheskikh izmereniy)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1959, Vol.7, Nr.1,  
pp 154-155 (USSR)

ABSTRACT: Gertsriken (Ref.1) pointed out that expansion of a metal  
on heating is due to an increase in the amplitude of thermal  
fluctuations as well as to loosening of the lattice by  
vacancy-formation. The volume change due to vacancy-formation  
is given by

$$\frac{\Delta V}{V} = C e^{-E_D/RT},$$

where C is the vacancy density and  $E_D$  the energy of  
formation. The energy  $E_D$  found from dilatometric measure-  
Card 1/3 ments for gold was found to agree well with the value obtained

SOV/126-7-1-25/28

On the Problem of Determining the Activation Energy of Vacancy-  
Formation Using Dilatometric Measurements

from experiments on quenching of vacancies ( $E_D = 18.2 \text{ kcal} = 0.79 \text{ eV}$ , Ref.4). This value of  $E_D$  indicates a vacancy density of  $1.08 \times 10^{-3}$  near the melting point. It is known that a vacancy density of  $(1 - 5) \times 10^{-4}$  can be easily quenched-in in gold. A sample with this quenched-in vacancy density should decrease in volume on cooling. Dilatometric experiments carried out by the authors showed that no such contraction occurred in gold. This negative result is due to the technique employed: the volume contraction was deduced from the change in length of a sample in the form of a plane parallel plate 0.1 mm thick (the other dimensions were 8 and 100 mm). It can easily be shown that contraction of such a sample will occur primarily in the form of a change in the sample thickness rather than its length. There are 4 references, of which 2 are Soviet, 1 German and 1 English.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR  
Card 2/3 (Physico-Technical Institute, Ac. Sc. USSR)

GINDIN, I.A.; LAZAREV, B.G.; KHVEDCHUK, I.R.

Dilatometric investigation of the low-temperature deformation  
transition to lithium. Fiz. met. i metalloved. 16 no.5:793-794  
N '63. (MIRA 17:2)

1. Fiziko-tekhnicheskiy institut AN UkrSSR.

D'YAKOV, I.G.; KHVEDCHUK, I.R.

Lithium refining by zone melting. Fiz. met. i metalloved. 17 no.2:  
303-305 F '64. (MIRA 17:2)

1. Khar'kovskiy fiziko-tekhnicheskiy institut AN SSSR.

ACCESSION NR: AP4017368

S/0126/64/017/002/0303/0305

AUTHOR: D'yakov, I. G.; Khvedchuk, I. R.

TITLE: Purification of lithium by zone melting

SOURCE: Fizika metallov i metallovedeniye, v. 17, no. 2, 1964, 303-305

TOPIC TAGS: lithium, lithium purification, zone melting

ABSTRACT: Using apparatus described in an earlier article (FMM, 1961, 11, 588), a sample of 99.3% lithium (0.01% K, 0.03% Ca, 0.2% Na, 0.03% Mg, 0.05% Si, 0.03% N, 0.009% Al, 0.003% Fe and 0.005% Mn) was purified in an atmosphere of helium by a repeated (12 and 20 times) crystallization process. The lithium obtained was estimated, from its relative conductivity, to be more than 99.95% pure. A chemical analysis of the product showed that Na, Mn, Ca, Fe, and Cu were more readily removed than Al, while Mg and Si were found to be "harmful" impurities, since they were difficult to remove. "The authors would like to thank Ye. V. Lifshits for performing the qualitative chemical analysis and L. S. Kiryakov for his technical assistance." Orig. art. has: 1 graph.

ASSOCIATION: Khar'kovskiy fiziko-tekhicheskiy institut AN SSSR (Khar'kov Physico-technical Institute)

Card 1/2

ACCESSION NR: AP4017368

SUBMITTED: 01Jun63

SUB CODE: MM

NO REF SOV: 004

ENCL: 00

OTHER: 003

Card 2/2



L 55098-65 EXT(a)/1/RED-2/100(1) Pg 1/Pg 4/13-4/PK-1 LJP(c) BB/03

ACCESSION NR: AP5018756

OR/0286/65/000/010/0081/0081  
681:142:642.2

AUTHOR: Khvedelidze, A. F.; Kachavariani, G. A.

TITLE: A method for handling operations in Gray code. Class 42, No. 171157

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 81

TOPIC TAGS: coding, computer logic, computer language

ABSTRACT: This Author's Certificate introduces: 1. A method for handling operations in Gray code without preliminary conversion to binary code. To speed up the process of addition, the index of parity is determined by scanning the numbers from the most significant digit to the least significant with simultaneous mod 2 summation by digits. A unit is added to each digit obtained by adding the digits of initial numbers with odd indices. At the same time the result of addition in the next most significant digit is inverted if the result of mod 2 summation of the numbers with odd indices is 0. If the result of mod 2 summation is equal to 1, the result is scanned from the digit with odd indices toward the most significant digits and the result of addition is inverted in the digit next to the most significant

Card 1/2

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ACCESSION NR: AP5015756

digit which is equal to 1. 2. A modification of this method in which the difference module of the numbers is obtained. The parity of the digits in one of the numbers is reversed and the numbers are added. If the parity is identical in the least significant digits of the original number, a unit of cyclic carry is added to the least significant digit. If the digits in the initial numbers have opposite parities, the result is scanned from the least significant digits toward the most significant, and a unit of cyclic carry is added to the digit next on the left from the first digit which is equal to 1.

ASSOCIATION: none

SUBMITTED: 27May64

ENCL: 00

SUB CODE: DE

NO REF SOV: 000

OTHER: 000

Card 2/2

L 60368-65

ACCESSION NR: AP5019075

UR/0286/65/000/012/0102/0103  
681.142.642.2

AUTHORS: Khvadelidze, A. F., Machavariani, G. A.

TITLE: Grey code summator. Class 42, No. 172131

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 102-103

TOPIC TAGS: summator

ABSTRACT: This Author Certificate presents a Grey code summator containing input number registers and a result register. To increase the response rate, the summator contains a parity determination line consisting of two groups of "AND" circuits. One of the inputs of an "AND" circuit in the first group is connected to the zero output of a given digit trigger and to the output of the "AND" circuit of the second group of the next more significant digit. The other input is connected to the output of the "AND" circuit, which is connected to the one output of the given digit trigger and to the output of the "AND" circuit of the first group of the next more significant digit. One of the inputs of an "AND" circuit in the second group is connected to the zero output of the given digit trigger and to the output of the "AND" circuit of the first group of the next more significant digit. The other input is connected to the one output of the given digit

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ACCESSION NR: AP5019075

trigger and to the output of the "AND" circuit of the second group of the next more significant digit. The even input of each trigger of the result register is connected to the output of the semisummarizer of the corresponding term digits, to the output of the "AND" circuit registering the characteristics combination "odd-odd," and to the output of an "AND" circuit. One input of the latter is connected to the one output of the result register trigger of the next less significant digit. The other input is connected to the output of an "AND" circuit of the preceding digit of a parallel shift line. One of the inputs of the "AND" circuit of a given digit of the parallel shift line is connected through a delay line to the output of the "AND" circuit registering the characteristics combination "odd-odd" in the given digit. The other input is connected to the output of the "AND" circuit of the parallel shift line of the preceding digit. The output of the parallel shift "AND" circuit from the leading digit of the result register is connected to the one input of the trailing digit trigger.

ASSOCIATION: none

SUBMITTED: 26 May 64

ENCL: 00

SUB CODE: DE

NO REF SOV: 000

OTHER: 000

Card 2/2 *KW*

**KHVEDELIDZE, B.V.**

Some properties of singular integrals in the sense of the Cauchy-Lebesgue principal value. Soob.AN Gruz.SSSR 8 no.5:283-290 '47.  
(MIRA 9:7)

1.Akademiya nauk Gruzinskey SSR, Tbilisskiy matematicheskiy institut imeni A.M.Rasmdaze. Predstavleno deystvitel'nym chlenom Akademii I.N.Vekua.

(Integrals, Generalized)

KHVEDELIDZE, B.V.

Singular integral equations in Cauchy-Lebesgue particular integrals.  
Soob.AN Gruz.SSR 8 no.7:427-434 '47. (MIRA 9:7)

1.Akademiya nauk Gruzinskoy SSR, Tbilisskiy matematicheskiy institut  
imeni A.M.Razmadze. Predstavleno deystvitel'nym chlenom Akademii  
I.N.Vekua.

(Integral equations)

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KHVEDLIDZE, B. V.

Resolvents, B. V. On linear integral equations with a singular kernel of Volterra type. Doklady Akad. Nauk SSSR (N.S.) 76: 107-110 (1951) (Russian). The author introduces a new notation for an earlier work [Izv. Akad. Nauk SSSR, 1950, No. 12, 117]. On the basis of this note, the author establishes the theorem of Noether for integral equations with the Volterra kernel and then in the case of principal values.

al equations. Volterra. Akad. Nauk SSSR (N.S.) 76: 107-110 (1951). The author introduces a new notation for an earlier work [Izv. Akad. Nauk SSSR, 1950, No. 12, 117]. On the basis of this note, the author establishes the theorem of Noether for integral equations with the Volterra kernel and then in the case of principal values.

CONFIDENTIAL

Source: Mathematical Reviews

Vol. 12

No. 10



KHVEDELIDZE D.

On the problem of the construction of a function in the class of functions satisfying Hölder's condition. Doklady Akad. Nauk SSSR (N.S.) 1975, 236, No. 1, 10-11 (1975) (Russian)

Let  $C$  be a simple closed curve of class  $C^1$  and  $C$  simple, open arc of class  $C^1$  with endpoints  $a$  and  $b$  and an angle satisfying Hölder's condition. The class  $L^p(C)$  along  $C$  is denoted by  $L^p(C)$ ,  $p > 1$ , and  $L^1(C)$  is denoted by  $L^1(C)$ . The class  $L^p(C)$  consists of functions  $f(t)$  such that: (1)  $f(t)$  is analytic in  $D$ ; (2)  $f(t) \in L^p(C)$  at infinity; (3) the non-tangential limit  $f(t) \in L^p(C)$  exists  $\forall t \in C$  (almost everywhere) on  $C$  and are in  $L^p(C)$ ; (4)  $f(t) \in L^p(C)$  for  $t \in C$ ; (5) for an arbitrary polynomial  $P_n(t)$  with  $n \leq n_0$ ,  $\int_C P_n(t) f(t) dt = 0$ , where  $n_0$  is some constant value. The author solves the problem of finding  $f(t) \in L^p(C)$  such that

$$f(t) \sim O(t^{-\alpha}) \text{ as } |t| \rightarrow \infty$$

on  $C$ ,  $G(t) \in L^p(C)$  given on  $C$ . This problem, previously considered by V. I. Krasnosel'skiĭ in the case of  $f(t)$ ,  $G(t)$  of Hölder class and the solution is piecewise analytic (in the sense of M. G. Kreĭn) is now solved under considerably more general conditions on  $f(t)$ ,  $G(t) \in L^p(C)$  (the same Doklady N.S. 1975, 236, No. 1, 10-11 (1975) (Russian) (Urbana, Ill.).

Source: Mathematical Review,

Vol. 12, No. 10

KHVDELIDZE, B.V.

On one class of singular integral equations having Cauchy type kernels. Soob. AN Gruz. SSR 15 no.7:401-405 '54. (MLRA 8:6)

1. Akademiya nauk Gruzinskoy SSR, Tbilisskiy matematicheskiy institut im A.M.Razmadze. Predstavleno deyatvitel'nyy chlenom Akademii V.D. Kupradze.  
(Integral equations)

KARTSIVADZE, I.N.; KHVEDELIDZE, B.V.

Cauchy type integral [in Georgian with in summary in  
Russian]. Trudy Tbil.mat.inst. 20:211-244 '54.  
(Integrals) (MLRA 8:8)

**KHVEDELIDZE, B.V.**

Riemann-Privalov problem in the theory of analytic functions. Usp.  
mat.nauk 10 no.3:165-171 '55. (MIRA 9:1)

(Functions, Analytic) (Riemann surfaces)

*Khvedelidze B.V.*

44-1-368

TRANSLATION FROM: Referativnyy Zhurnal, Matematika, 1957, Nr 1,  
p. 61 (USSR)

AUTHOR: Khvedelidze, B. V.

TITLE: Some Composition Formulas of Singular Integrals  
and Their Application to the Reversal of Integral  
of Cauchy Type (Nekotoryye formuly kompozitsii  
singulyarnykh integralov i ikh prilozheniya k  
obrashcheniyu integrala tipa Koshi)

PERIODICAL: Soobshch. AN GruzSSSR, 1955, 16, Nr 2, pp. 81-88

ABSTRACT: Let  $C$  be a finite totality of plane, open curves  
of Lyapunov:  $C = \sum_{k=1}^m C_k$ . The author regards the function  
 $f(t)$  as belonging to the class  $L^p(C, \omega(t))$  if  $f(t)$  is  
measurable,  $\omega(t)$  is a non-negative measurable function, and  
Lebesgue's integral  $\int \omega(t) |f(t)|^p d\sigma$  exists.  
Let  $a_k, b_k$  ( $k = 1, 2, \dots, m$ ) be the ends of curves  $C_k$ . The

Card 1/2

44-1-368

Some Composition Formulas of Singular Integrals and Their (Cont.)

following notations are introduced:

$$R(z) = \sqrt{\prod_{k=1}^m (z-a_k)(z-b_k)},$$

$$R_a(z) = \sqrt{\prod_{k=1}^m (z-a_k)}$$

$$R_b(z) = \sqrt{\prod_{k=1}^m (z-b_k)}; \quad S_\varphi = \frac{1}{\pi i} \int_c \frac{\varphi(\tau)}{\tau-t} d\tau,$$

$$U_\varphi = \frac{1}{\pi i R(t)} \int \frac{R(\tau) \varphi(\tau) d\tau}{\tau-t}; \quad V_\varphi = \frac{R(t)}{\pi i} \int \frac{(\tau) d\tau}{R(\tau) (\tau-t)}; \text{ and}$$

also some other analogous notations. Using the composition formula of double singular integrals, the author derives formulas of composition of the operators SU, US, SV, VS, and similar ones in the classes  $\Phi \in L^p(C, R^{-1})$ ,  $L^p(C, R_a^{-1} R_b)$  and others. With the aid of the above composition formulas, the author derives formulas for reversal of integrals of Cauchy type (Muskhelivshvili, N.I., Singular Integral Equations, M.-L., 1946, paragraphs 88, 89) in those classes of functions for which the above composition formulas are derived.

F. D. Gakhov.

Card 2/2

KHVEDELIDZE, B.V.

**KHVEDELIDZE, B.V.**

On a discontinuous Riemann-Privalov problem in the theory of analytic functions. Dokl. AN SSSR 102 no.6:1081-1084 Je'55. (MLRA 8:10)

1. Tbilisekiy matematicheskiy institut imeni A.M.Razmadze Akademii nauk Gruz.SSR. Predstavleno akademikom N.I.Muskhelishvili  
(Functions, Analytic)

Khvedelidze, B. V.

Call Nr: AF 1108825

Transaction of the Third All-union Mathematical Congress, Moscow, Jun-Jul '56,  
Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.

Khvedelidze, B. V. (Tbilisi). On Singular Integral Equations With Cauchy Type  
Kernels in the Classes of Functions, Which are Summed up with Weight. 72



KHVEDGELOZE, B.V.

**Knyedell, B. V.**

1984-1985 1986-1987 1988-1989 1990-1991 1992-1993 1994-1995 1996-1997 1998-1999 2000-2001 2002-2003 2004-2005 2006-2007 2008-2009 2010-2011 2012-2013 2014-2015 2016-2017 2018-2019 2020-2021 2022-2023 2024-2025 2026-2027 2028-2029 2030-2031 2032-2033 2034-2035 2036-2037 2038-2039 2040-2041 2042-2043 2044-2045 2046-2047 2048-2049 2050-2051 2052-2053 2054-2055 2056-2057 2058-2059 2060-2061 2062-2063 2064-2065 2066-2067 2068-2069 2070-2071 2072-2073 2074-2075 2076-2077 2078-2079 2080-2081 2082-2083 2084-2085 2086-2087 2088-2089 2090-2091 2092-2093 2094-2095 2096-2097 2098-2099 2100-2101 2102-2103 2104-2105 2106-2107 2108-2109 2110-2111 2112-2113 2114-2115 2116-2117 2118-2119 2120-2121 2122-2123 2124-2125 2126-2127 2128-2129 2130-2131 2132-2133 2134-2135 2136-2137 2138-2139 2140-2141 2142-2143 2144-2145 2146-2147 2148-2149 2150-2151 2152-2153 2154-2155 2156-2157 2158-2159 2160-2161 2162-2163 2164-2165 2166-2167 2168-2169 2170-2171 2172-2173 2174-2175 2176-2177 2178-2179 2180-2181 2182-2183 2184-2185 2186-2187 2188-2189 2190-2191 2192-2193 2194-2195 2196-2197 2198-2199 2200-2201 2202-2203 2204-2205 2206-2207 2208-2209 2210-2211 2212-2213 2214-2215 2216-2217 2218-2219 2220-2221 2222-2223 2224-2225 2226-2227 2228-2229 2230-2231 2232-2233 2234-2235 2236-2237 2238-2239 2240-2241 2242-2243 2244-2245 2246-2247 2248-2249 2250-2251 2252-2253 2254-2255 2256-2257 2258-2259 2260-2261 2262-2263 2264-2265 2266-2267 2268-2269 2270-2271 2272-2273 2274-2275 2276-2277 2278-2279 2280-2281 2282-2283 2284-2285 2286-2287 2288-2289 2290-2291 2292-2293 2294-2295 2296-2297 2298-2299 2300-2301 2302-2303 2304-2305 2306-2307 2308-2309 2310-2311 2312-2313 2314-2315 2316-2317 2318-2319 2320-2321 2322-2323 2324-2325 2326-2327 2328-2329 2330-2331 2332-2333 2334-2335 2336-2337 2338-2339 2340-2341 2342-2343 2344-2345 2346-2347 2348-2349 2350-2351 2352-2353 2354-2355 2356-2357 2358-2359 2360-2361 2362-2363 2364-2365 2366-2367 2368-2369 2370-2371 2372-2373 2374-2375 2376-2377 2378-2379 2380-2381 2382-2383 2384-2385 2386-2387 2388-2389 2390-2391 2392-2393 2394-2395 2396-2397 2398-2399 2400-2401 2402-2403 2404-2405 2406-2407 2408-2409 2410-2411 2412-2413 2414-2415 2416-2417 2418-2419 2420-2421 2422-2423 2424-2425 2426-2427 2428-2429 2430-2431 2432-2433 2434-2435 2436-2437 2438-2439 2440-2441 2442-2443 2444-2445 2446-2447 2448-2449 2450-2451 2452-2453 2454-2455 2456-2457 2458-2459 2460-2461 2462-2463 2464-2465 2466-2467 2468-2469 2470-2471 2472-2473 2474-2475 2476-2477 2478-2479 2480-2481 2482-2483 2484-2485 2486-2487 2488-2489 2490-2491 2492-2493 2494-2495 2496-2497 2498-2499 2500-2501 2502-2503 2504-2505 2506-2507 2508-2509 2510-2511 2512-2513 2514-2515 2516-2517 2518-2519 2520-2521 2522-2523 2524-2525 2526-2527 2528-2529 2530-2531 2532-2533 2534-2535 2536-2537 2538-2539 2540-2541 2542-2543 2544-2545 2546-2547 2548-2549 2550-2551 2552-2553 2554-2555 2556-2557 2558-2559 2560-2561 2562-2563 2564-2565 2566-256
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**The article deals with the boundary problem**

2014年12月10日

under the condition that the boundary  $\Gamma$  is a smooth curve, the inclination of whose tangent satisfies a Hölder condition and that the function  $u(t)$  has the form

[illegible][illegible]

Walter Reed

Just in Kingsbury  
H. S. No. 55 C

Myadellide, E. Y.

where  $E_1$  and  $E_2$  are the finite and infinite regions bounded by  $\Gamma$ .

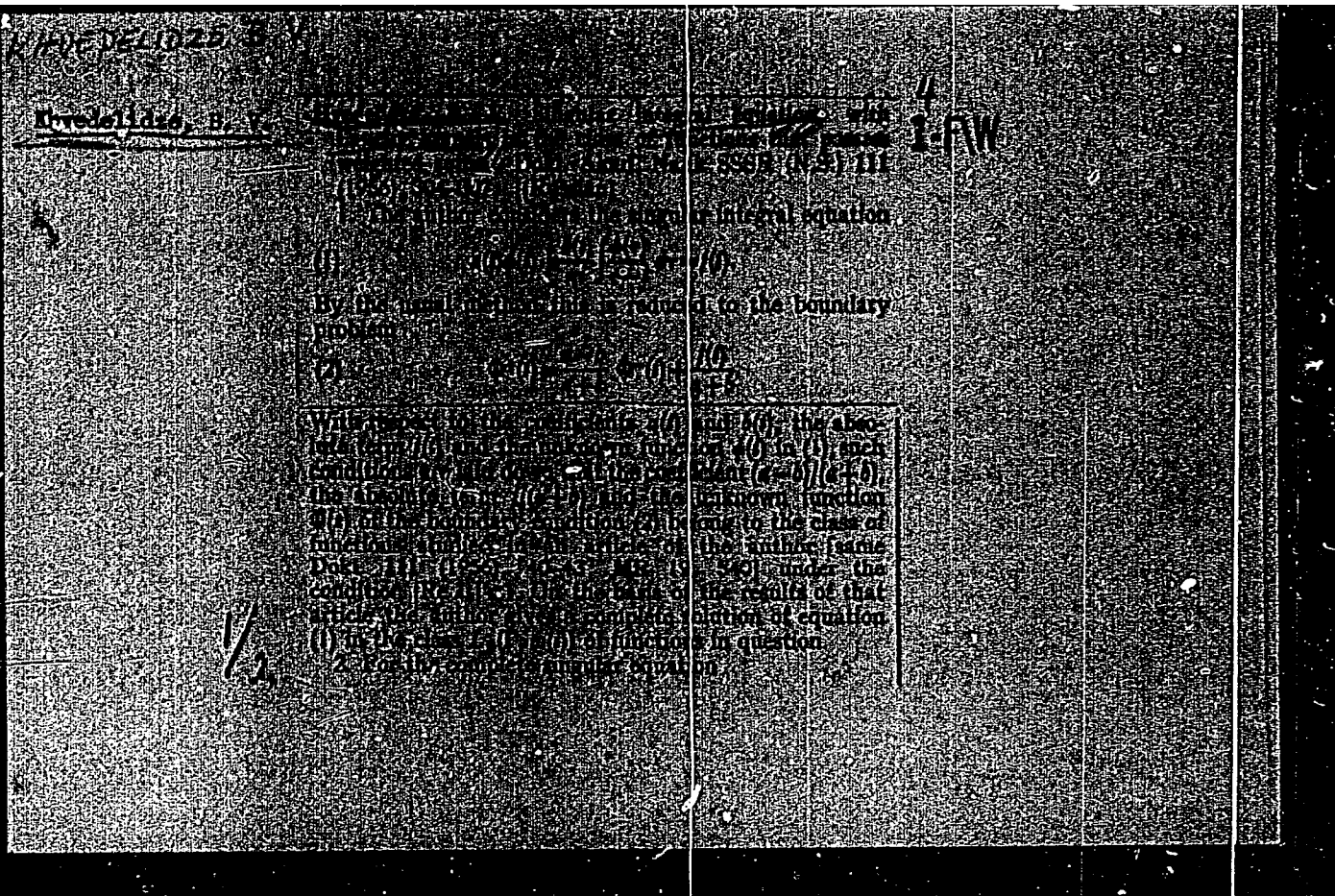
It is proved that there exists a solution of (\*) of finite order at infinity in the class of functions

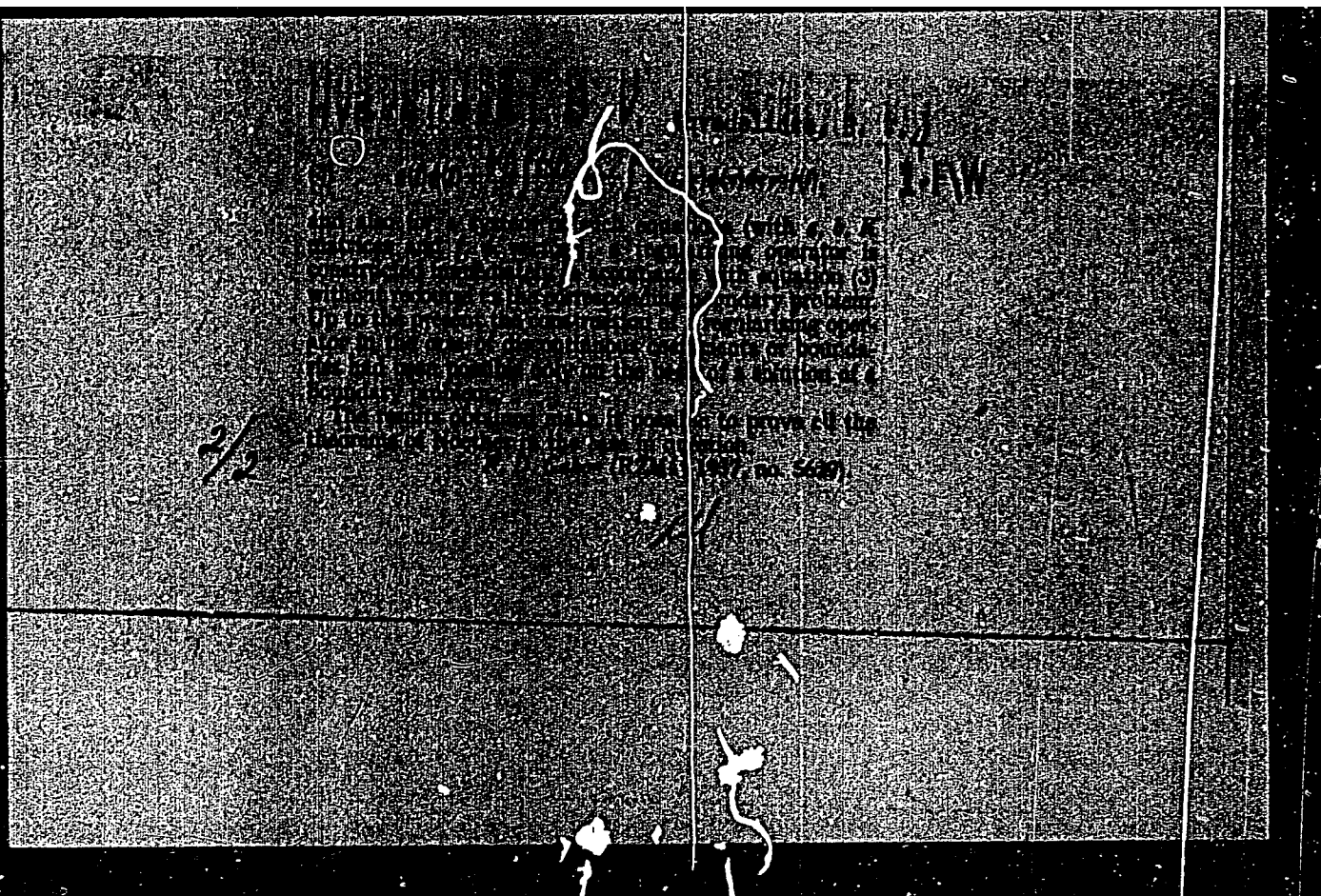
$$u(x) = O(|y|^\alpha) \text{ as } |y| \rightarrow \infty, \quad (x) \in L_p(\Gamma^+; \omega(y)).$$

and an explicit representation is given for it in terms of integrals of Cauchy type.

The article is a generalization of work by a series of authors (E. M. Lavrent'ev, D. G. Gakhov, N. I. Muskhelishvili and others) who have considered problem (\*) under more restrictive hypotheses.

E. M. Lavrent'ev, *Dokl. Akad. Nauk SSSR* 1957, no. 6295.





KHVEDELIDZE, B.V.

On singular integral equation systems with Cauchy kernels. Soob.  
AN Gruz.SSR 18 no.2:129-136 F '57. (MLRA 10:7)

1. Akademiya nauk Gruzinskoy SSR, Tbilisskiy matematicheskiy  
institut im. A.M.Razmadze. Predstavleno chlenom-correspondentom  
Akademii N.P. Vekua.

(Integral equations)

KHVEDELIDZE, B.V.

Some remarks on my work "Discontinuous linear boundary problems in the theory of functions, singular integral equations and some of their applications." Soob. AN Gruz. SSR 21 no.2: 129-130 Ag '58. (MIRA 12:6)

1. AN Gruz. SSR, Tbilisskiy matematicheskiy institut im. A.M. Razmadze. Predstavleno chlenom-korrespondentom Akademii N.P. Vekua.

(Functions of complex variables)

KHVEDELIDZE, B.V.

Riemann-Privalov discontinuous problem with a given displacement.  
Soob. AN Gruz. SSR 21 no.4:385-389 0 '58. (MIRA 12:4)

1. AN GruzSSR, Tbilisskiy matematicheskii institut im. A.M. Razmadze. Predstavleno chlenom-korrespondentom Akademii N.P. Vekua.  
(Functional analysis)

16(1)

AUTHORS: Mandzhavidze, G.F., and Khvedelidze, B.V. SOV/20-123-5-5/50

TITLE: On the Problem of Riemann-Privalov With Continuous Coefficients  
(O zadache Rimana-Privalova s nepreryvnymi koefitsiyentami)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 5, pp 791-794 (USSR)

ABSTRACT: The authors consider the following problem: Matrices  $\Phi(z)$  are sought, the elements of which are of the type  $\varphi(z) = \frac{1}{2\pi i} \int_{\Gamma} \frac{\psi(t)}{t-z} dt + \chi(z)$

( $\psi$  - summable on  $\Gamma$ ,  $P$  - integral), the boundary values of which belong to the  $L_p$  ( $p > 1$ ) in the salient points of  $\Gamma$  and satisfy

the condition  $\Phi^+(t) = a(t) \Phi^-(t) + b(t)$ ,  $t \in \Gamma$ , where  $\Phi^+$  is defined inside of the domain bounded by  $\Gamma$  and  $\Phi^-$  is defined outside of the domain bounded by  $\Gamma$ ;  $a(t)$  and  $b(t)$  are certain given matrices. This problem and a further similar one are solved with the aid of a method on which Mandzhavidze has given a lecture already in 1956 at the Third Mathematical Union Congress. There are 7 references, 6 of which are Soviet, and 1 American.

ASSOCIATION: Tbilisskiy matematicheskiy institut imeni A.M. Razmadze AN Gruz. SSR  
Card 1/2 (Tbilissi Mathematical Institute imeni A.M. Razmadze AS Gruz. SSR)



KHVEDL D22 B.V.

16(0) PHASE I BOOK EXPLANATIONS SOV/3177  
 Matematika v SSSR za srok let. 1917-1957. Tom 1: Osnovnye stat'i  
 (Mathematics in the USSR for Forty Years, 1917-1957) Vol. 1:  
 Main Articles) Moscow, Fizmatgiz, 1959. 1002 p. 5,500 copies  
 printed.

Eds: A. G. Kurosh, (Chief Ed.), V. I. Brizitskov, V. O. Ekiyanacy,  
 Ye. B. Dyvin, G. Ye. Shilov, and A. P. Fushkevich; Ed. (Inside  
 book): I. P. Lapov; Tech. Ed.: G. M. Akhizov.

FOURCC: This book is intended for mathematicians and historians  
 of mathematics interested in Soviet contributions to the field.

COVERAGE: This book is Volume I of a major 2-volume work on the  
 history of Soviet mathematics. Volume I surveys the chief con-  
 tributions made by Soviet mathematicians during the period 1907-  
 1957. Volume II will contain a bibliography of major works since  
 1917 and biographies of some of the leading mathema-  
 ticians. This work catches the tradition set by two earlier  
 works: Matematika v SSSR i prikladnaya matematika v SSSR za tridtsat' let  
 (Mathematics in the USSR for 30 Years) and Matematika v SSSR za tridtsat' let  
 into the major divisions of the field, i.e., algebra, topology,  
 theory of probabilities, functional analysis, etc., and con-  
 tributions and outstanding problems in each discussed. A list-  
 ing of some 1400 Soviet mathematicians is included with refer-  
 ences to their contributions in the field.

Volkovskiy, L. I. Riemann surfaces

Introduction

1. Classification of Riemann surfaces 472
2. Geometric theory of entire and meromorphic functions 473
3. Analytic and quasianalytic functions and differentials 476
4. Various problems. Problematics 477

Shabat, B. V. Generalization and Analogies of the Theory  
 of Analytic Functions 485

Fuks, B. A. Functions of Many Complex Variables 481

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AUTHOR: Khvedelidze, B.V.

TITLE: Regularization problem in the theory of integral equations  
with a Cauchy kernel

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 1, 1961, 66-68

TEXT: The author considers the integral equation with the Cauchy  
kernel

$$N \varphi = a(t) \varphi(t) + b(t) S \varphi + V \varphi = f(t), \quad (1)$$

where

$$S \varphi = \frac{1}{\pi i} \int_{\Gamma} \frac{\varphi(t_1)}{t_1 - t} dt_1, \quad t \in \Gamma.$$

$\Gamma$  is a finite set of simple closed or open Lyapunov curves free of intersections;  $a(t)$ ,  $b(t)$ ,  $f(t)$  are defined on  $\Gamma$ ;  $V$  is a completely continuous operator in the same space in which  $\varphi(t)$  is sought.

In certain cases the problem of regularization leads to the operator

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$$T_{\omega} \varphi = \int_{\Gamma} \frac{\omega(t_1) - \omega(t)}{t_1 - t} \varphi(t_1) dt_1.$$

S.G. Mikhlin (Ref. 4, DAN 59, no. 3, 1946) has shown that if  $\omega(t)$  is continuous on  $\Gamma$  then  $T_{\omega}$  is completely continuous in the Hilbert space  $L_2(\Gamma)$ . By this assertion Mikhlin could solve the problem of regularization if  $\Gamma$  is closed and  $a(t), b(t)$  are continuous. The author generalizes the result of Mikhlin with respect to  $T_{\omega}$ .

If  $\varphi(t)$  has discontinuities of first kind in  $c_1, c_2, \dots, c_m \in \Gamma$  and if it is continuous on the closed parts of  $\Gamma$  lying between these points then  $\varphi(t)$  belongs to the class  $C(\Gamma; c_1, c_2, \dots, c_m)$ .

Let  $\alpha_k$  be real,  $0 \leq \alpha_k < 1$ ,  $k = 1, \dots, m$ . Let

$$g(t) = \prod_{k=1}^{m_1} |t - c_k|^{\alpha_k^{(p-1)}} \prod_{k=m_1+1}^m |t - c_k|^{-\alpha_k}, \quad 0 \leq m_1 \leq m;$$

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if  $m_1 = 0$  then let the first product be  $= 1$ , if  $m_1 = m$  then let the second product be  $= 1$ . Let  $L_p(\Gamma; \xi)$  be the space of functions defined on  $\Gamma$  and integrable in the  $p$ -th power with the weight  $\xi(t)$ . For  $\varphi \in L_p(\Gamma; \xi)$  let

$$\|\varphi\|^p = \int_{\Gamma} \xi(t) |\varphi(t)|^p ds.$$

Let  $p > 1$ .

Theorem 1: If  $\omega(t) \in C(\Gamma; c_1, c_2, \dots, c_m)$  then  $T_\omega$  maps the space  $L_p(\Gamma; \xi)$  into itself and is completely continuous.

Theorem 2: If  $\sigma(t)\omega(t) \in C(\Gamma; c_1, c_2, \dots, c_m)$ , where

$$\sigma(t) = \prod_{k=1}^m |t - c_k|^{\alpha_k}, \quad 0 < \alpha_k < 1$$

then  $T_\omega$  maps the space  $L_p(\Gamma; \sigma^{-1})$  into the space  $L_p(\Gamma; \sigma^{p-1})$  and is completely continuous.

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In (1) let now :  $a(t), b(t) \in C(\Gamma; c_1, c_2, \dots, c_m)$ ,  $a^2(t) - b^2(t) \neq 0$  everywhere on  $\Gamma$ ;  $f(t), \varphi(t) \in L_p(\Gamma; \mathcal{G})$ ;  $V$  maps  $L_p(\Gamma; \mathcal{G})$  into itself and is completely continuous;  $\Gamma$  consists of closed lines. Under these assumptions from theorem 1 and known older results it follows that the operator

$$M\varphi \equiv a_0(t)\varphi(t) - S(b_0\varphi) \quad , \quad (2)$$

where

$$a_0(t) = \frac{a(t)}{a^2(t) - b^2(t)} \quad , \quad b_0(t) = \frac{b(t)}{a^2(t) - b^2(t)}$$

is the left as well as the right regularizator of the operator  $N$  in the space  $L_p(\Gamma; \mathcal{G})$ .

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Regularization problem in the theory ... S/020/61/140/001/009/024  
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There are 5 Soviet-bloc references.

ASSOCIATION: Tbilisskiy matematicheskiy institut imeni A.M. Razmadze  
Akademii nauk Gruz SSR (Tbilisi Mathematical Institute  
imeni A.M. Razmadze of the Academy of Sciences  
Gruzinskaya SSR)

PRESENTED: April 22, 1961, by N.I. Muskhelishvili, Academician

SUBMITTED: April 7, 1961



Card 5/5

KHARAZOV, D.F.; KHVEDELIDZE, B.V.

Some notes on the theory of singular integral equations with a  
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1. Akademiya nauk Gruzinskoy SSR Tbilisskiy matematicheskiy institut  
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(Integral equations)

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with Cauchy kernels and continuous coefficients. Trudy Mat.  
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(Boundary value problems) (Integral equations)



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[Sukradbel as a medicine against chronic encephalitis, and  
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N/5  
647  
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35 p. illus., graphs (Opyt Sovetskoy Meditsiny)  
Includes a Georgian language summary of the text.  
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Control of respiratory movements in the frog. Soob. AN Gruz. SSR  
18 no.6:741-746 Je '57. (MIRA 10:10)

1. Tbilisskiy gosudarstvennyy meditsinskiy institut. Predstavleno  
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(RESPIRATION) (BRAIN) (FROGS)

ERISTAVI, K.D., akademik; GEORGADZE, G.Ye.; KHVEDELIDZE, G.V.; KEBADZE, N.N.

Induction of tumors in hypo- and hyperthyreosis. Soob. AN Gruz.  
SSR 19 no.6:737-742 D '57. (MIRA 11:6)

1. Institut eksperimental'noy i klinicheskoy khirurgii i gematologii  
AN GruzSSR, Tbilisi. 2. AN GruzSSR (for Eristavi).  
(THYROID GLAND--DISEASES) (CANCER)

27.2300

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S/219/62/053/006/003/003

1015/1215

AUTHOR Khvedelidze, G. V.

TITLE The effect of hypothermia and hibernation on conditioned reflexes elaborated to sound  
 PERIODICAL Byulleten' eksperimental'noy biologii i meditsiny, v. 53, no. 6, 1962, 32-35

TEXT Only two studies on CNS activity after hypothermia have been reported by Soviet authors, while non-Soviet authors have investigated the free movements, behavior and EEG of animals before and after hypothermia. Experiments were performed on 2 dogs, subjected to hypothermia (the rectal temperature was reduced to 23-24°C) and also given a hibernation 'cocktail' (1.5 ml of a 5% promedol solution i.m. and 30 min. later 0.1 ml/kg b.w. of the 'cocktail', also i.m., the composition of which was: 50 ml of 0.1% atropine sulf., 1g dimedrol, 1g aminazine). The previously elaborated unilateral steady conditioned reflexes to metronome sound, based on electric stimulation of the teeth (Gedevanishvili's method) showed no disturbances 2 days after the hypothermia and hibernation. In order to detect changes in CNS activity following hypothermia-hibernation, more delicate tests should be elaborated. There are 2 figures

ASSOCIATION Institut eksperimental'noy i klinicheskoy khirurgii i gematologii AN Gruzinskoy SSR i fiziologicheskaya laboratoriya pediatricheskogo fakulteta Tbiliskogo meditsinskogo instituta (Institute of Experimental and Clinical Surgery and Hematology, AS. Georgian SSR and Physiological Laboratory, Chair of Pediatrics, Medical Institute, Tbilisi)

SUBMITTED July 26, 1961

Card 1/1

KHVEDELIDZE, G.V.

Effect of hypothermia in combination with hibernation on conditioned reflexes from the auditory analyzer. Biul. eksp. biol. i med. 53 no. 6: 32-35 Je '62. (MIRA 15:10)

1. Iz Instituta eksperimental'noy i klinicheskoy khirurgii i gematologii (dir. - akademik AN Gruzinskoy SSR K.D. Eristavi) AN Gruzinskoy SSR i fiziologicheskoy laboratorii pediatricheskogo fakul'teta (rukovoditel' - chlen-korrespondent AN Gruzinskoy SSR prof. D.M. Gedevanishvili) Tbilisskogo meditsinskogo instituta (dir. - prof. P.G. Gelbakhiani). Predstavlena akademikom V.N. Chernigovskim.

(CONDITIONED RESPONSE) (HEARING) (HYPOTHERMIA)  
(ARTIFICIAL HIBERNATION)



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Effect of hypothermia on conditioned reflex activity. Trudy Inst.  
eksp.i klin.khir.i gemat. AN Gruz.SSR 10:207-218 '62.

(CONDITIONED RESPONSE) (HYPOTHERMIA)

(MIRA 16:2)

ACCESSION NR: <sup>P</sup>AT4045203

S/0251/64/035/002/0299/0302

AUTHOR: Mirtskhulava, I.A., Chigogidze, Z.N., Kurdiani, N.I., Khvedelidze, L.V.,  
Dzhanelidze, R.B., Mirianashvili, M.M.

TITLE: The possibility of obtaining high-resistance, compensated crystals of indium antimonide by heat treatment

SOURCE: AN GruzSSR. Soobshcheniya, v. 35, no. 2, 1964, 299-302

TOPIC TAGS: indium, antimony, indium antimonide, compensated crystal, crystal electrical resistance, electrical conductivity

ABSTRACT: The resistance of indium antimonide is low primarily because of the presence of impurities. Heat treatment of n-type material generates acceptor levels at  $1.6-1.8 \times 10^{-2}$  eV, leading to compensation of band electrons at the residual donor impurity. A diagram shows the conductivity and Hall coefficient in relation to temperature before and after heat treatment (450C). Because of the depth of the thermal acceptor levels, it should be possible to obtain compensated indium antimonide with a resistance of several kilohm, but this turned out to be difficult to achieve because of sensitivity of the material to temperature, time of holding the temperature and the initial donor concentration. A graph of resistivity against time of heating showed a sharp maximum at

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ACCESSION NR: <sup>p</sup>44045203

about 2.5 hours. Up to the present, the authors have only managed to obtain 100-130 ohm-cm in p-type InSb having a hole concentration of  $10^{13} \text{ cm}^{-3}$ , while maintaining a high carrier mobility of  $5 \times 10^3 \text{ cm}^2/\text{V-sec}$ , but higher resistivities are expected in the near future. Crystals of the material were tested in fast, clamping switches of the breakdown type. The low breakdown voltage (40V/cm) and fast recovery time (microsec.) hold considerable promise. "The authors acknowledge aid from L.S. Khitarishvili, I.M. Purtselaadze, Ye. K. Nemsadze, A.V. Matveyenko and V.G. Avalina." Orig. art. has: 2 figures.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tiflis State University)

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Card 2/2

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Electrophysiological characteristics of the assimilation reactions  
and the reproduction of the stimulation rhythm in plants. Izv.  
AN SSSR. Ser. biol. no.3:439-450 May-June '64. (MIRA 17:5)

1. Central Institute of the Reeducation of Physicians and  
Institute of Cybernetics of the Georgian S.S.R.